

AGENDA
REGULAR DRAINAGE MEETING
AUGUST 8, 2018 AT 8:30 A.M.

1. Open Meeting
2. Approve Agenda
3. Approve Minutes
 - July 25, 2018 Regular Drainage Meeting
 - DD 167 - July 25, 2018 Landowner Meeting
 - DD 22 - July 25, 2018 Bid Letting
 - DD 22 - August 1, 2018 Landowner Meeting

Documents:

[DD 167 LANDOWNER MTG 7_25_2018 - MINUTES.PDF](#)
[DD 22 BID LETTING 7_25_2018 - MINUTES.PDF](#)
[7_25_2018 - DRAINAGE MINUTES.PDF](#)
[DD 22 LANDOWNER MTG 8_1_2018 - MINUTES.PDF](#)

4. Discuss, With Possible Action, Future Project Specifications
5. DD 22 - Discuss, With Possible Action, Possible Project Change Order
6. DD 26 Lat 4 - Discuss, With Possible Action, Updates To Project
7. DD 25 - Discuss, With Possible Action, Updates On Project
8. DD 52 - Discuss, With Possible Action, Repair Summary For Work Order #215

Documents:

[DD52WO215.PDF](#)

9. DD 77 - Approve Change Order #1

Documents:

[6771.2 -CONTRACTOR AND ENGINEER SIGNED CHANGE ORDER 1.PDF](#)

10. Other Business
11. Adjourn Meeting

DRAINAGE DISTRICT 167

LANDOWNER MEETING

7/25/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisors Co-Chairperson, Renee McClellan, opened the meeting. Also present was Supervisor, Lance Granzow; Landowners, Michael Martin, Neil Martin, Lydia Martin, Curt Groen, Dave Bernard, Jim Martin, Larry Balvanz, Ron Reece and Pauline Lloyd; Lee Gallentine with Clapsaddle-Garber Associates (CGA); Drainage Clerk, Tina Schlemme. Absent: Supervisor, BJ Hoffman.

2. Approve Agenda

Granzow moved, McClellan seconded to approve the agenda as presented. All ayes. Motion carried.

3. Attendance/Introductions

Introductions were made and attendance verified.

4. Explanation Of Project

The meeting was turned over to Gallentine who explained the repair summary. An investigation began when a landowner in the NE SE of Section 4-86-20 reported a blowout in the waterway with smaller ones upstream. It is evident that the tile is blocked and needs repaired. It is currently 6 to 8 inch tile but due to low soil cover, it is recommended that it be replaced with concrete pipe which comes in 12 inch pipe. Gallentine further stated that multiple repairs have been submitted over the past 20 years.

5. Comments/Discussion

Granzow asked the landowners if they would like to replace the main tile as is, replace both main tiles into one larger tile or just perform spot repairs. Neil Martin stated he had helped as a boy installing the original tile in the mid 1940's and believed the soil cover to be 4 feet. Gallentine added that the spot they checked the cover was only 1.5 to 2 feet of cover so erosion must have occurred. There was much discussion between land owners regarding replacing all of the tile moving forward. It was agreed that they would pay to have an engineer's report created to see the projected estimated costs with the different options to see how they would like to move forward. When asked if they would consider an open ditch option, Neil Martin stated he would like to keep the drainage underground. Gallentine added that they are busy with construction season right now, but he would hope to have a report completed by the end of the year.

6. Possible Action

Granzow moved, McClellan seconded for CGA to complete an engineer's report with both repair and improvement options and a hearing will be scheduled once submitted. It was discussed that the repair option should include a single line repair and both lines being replaced into one tile. All ayes. Motion carried.

7. Other Business

It was discussed that a reclassification may be considered once the engineer's report is submitted and a plan is approved.

8. Adjourn Meeting

Granzow moved, McClellan seconded to adjourn the meeting. All ayes. Motion carried.

**DRAINAGE DISTRICT 22
BID LETTING**

7/25/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisors Co-Chairperson, Renee McClellan, opened the meeting. Also present was Supervisor, Lance Granzow; Heather Thomas and Lee Gallentine with Clapsaddle-Garber Associates (CGA); Contractors, Jeremy Maas and Randy Fahr with Gehrke Inc and John Senn with Lodge Construction; Jim Sweeney with Forterra BP; ADS representative, Mike Amdorfer; Drainage Clerk, Tina Schlemme. Absent: Board of Supervisor, BJ Hoffman.

2. Approve Agenda

Granzow moved, McClellan seconded to approve the agenda as presented. All ayes. Motion carried.

3. Introductions/Attendance

Introductions were made and attendance verified.

4. Open Bids

Thomas opened the bids, in addition to verifying that the bids and bid bonds were all in order.

	Engineers Estimate	Gehrke, Inc Eldora, IA	Wunsch Const., Inc Greene, IA	Lodge Const, Inc Clarksville, IA
Base Bid	\$ 522,000.00	\$ 590,912.50	\$ 666,226.25	\$ 664,373.00
RCP Alt w/Rock Bedding	\$ 667,000.00	\$ 539,778.50	\$ 653,675.25	\$ 619,245.00
RCP Alt w/o Rock Bedding	\$ 549,000.00	\$ 517,885.50	\$ N/A	\$ 602,964.00
Add Alt 1: CCTV 1 Month Post Constr	\$ 19,191.00	\$ 15,992.50	\$ 12,794.00	\$ 31,985.00
Add Alt 2: CCTV 12 Months Post Constr	\$ 63,970.00	\$ 25,588.00	\$ 19,191.00	\$ 31,985.00
Add Alt 3: PP Cross Connection	\$ 3,750.00	\$ 6,324.00	\$ 4,800.00	\$ 8,500.00
Add Alt 4: RCP w/Rock Cross Connection	\$ 4,900.00	\$ 4,554.00	\$ 4,800.00	\$ 8,420.00
Add Alt 5: RCP w/o Rock Cross Connection	\$ 4,450.00	\$ 4,554.00	\$ N/A	\$ 8,300.00
Add Alt 6: 2 Year Maint Bond	\$ 30,000.00	\$ 5,000.00	\$ 2,000.00	\$ 9,500.00

5. Possible Action

The Trustees agreed that Thomas should verify the calculations and bring the results back to the landowner meeting scheduled for Wednesday, August 1, 2018 at 8:30. The bid items to approve will be discussed at that meeting.

6. Other Business

It was discussed that ADS is the pipe supplier for the base bid.

7. Adjourn Meeting

Granzow moved, McClellan seconded to adjourn the meeting. All ayes. Motion carried.

REGULAR DRAINAGE MEETING

7/25/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisors Co-Chairperson, Renee McClellan, opened the meeting. Also present was Supervisor, Lance Granzow; Lee Gallentine with Clapsaddle-Garber Associates (CGA); Drainage Clerk, Tina Schlemme. Absent: Supervisor, BJ Hoffman.

2. Approve Agenda

Granzow moved, McClellan seconded to approve the agenda as presented. All ayes. Motion carried.

3. Approve Minutes

Granzow moved, McClellan seconded to approve the minutes of the July 11, 2018 regular drainage meeting. All ayes. Motion carried.

4. Approve Claims For Payment

Granzow moved, McClellan seconded to approve the claims for payment with pay date of Friday, July 27, 2018. All ayes. Motion carried.

Description	Vendor	Amount
DD 8 WO 132 COMPL SVCS TO 7/9/18	Clapsaddle-Garber Assoc	\$ 92.50
DD 8 WO 132 FINAL PAY EST 3	Cole Excavating	\$ 5,886.00
DD 8 WO 132 POSTAGE REIMBURSEMENT	Hardin County Auditor	\$ 11.41
DD 22 ENG SVCS 5/19-6/16/18	Clapsaddle-Garber Assoc	\$ 2,367.00
DD 22 LEGAL REVIEW PROJ DOCS	The Davis Brown Law Firm	\$ 1,732.50
DD 25 WO 209 SVCS TO 7/19/18	Clapsaddle-Garber Assoc	\$ 1,273.00
DD 34 WO 206 ENG SVCS TO 7/13/18	Clapsaddle-Garber Assoc	\$ 687.00
DD 55-3 LAT 12 WO 201 ENG FEES 4/6-7/13/18	Clapsaddle-Garber Assoc	\$ 759.75
DD 56 WO 204 ENG SVCS TO 7/6/18	Clapsaddle-Garber Assoc	\$ 927.25
DD 72 WO 71 ENG SVCS 6/1/18-7/13/18	Clapsaddle-Garber Assoc	\$ 7,158.00
DD 95 LAT 3 WO 162 ENG SVCS TO 7/6/18	Clapsaddle-Garber Assoc	\$ 8,172.15
DD 95 WO 162 REPAIR - 467' 12" TILE	Hands On Excavating LLC.	\$30,449.26
DD 119 WO 210 SVCS TO 7/19/18	Clapsaddle-Garber Assoc	\$ 1,730.00
DD 122 WO 160 COMPL SVCS TO 7/5/18	Clapsaddle-Garber Assoc	\$ 92.50
DD 122 WO 160 FINAL PAY EST 3	Cole Excavating	\$ 2,787.23
DD 122 WO 160 POSTAGE	Hardin County Auditor	\$ 2.43
DD 131 WO 166 ENG SVCS 1/31-7/20/18	Clapsaddle-Garber Assoc	\$ 146.00
DD 136 WO 146 ENG SVCS 1/31/18-7/20/18	Clapsaddle-Garber Assoc	\$ 198.20
DD 143 WO 168 SVCS 4/11-7/6/18	Clapsaddle-Garber Assoc	\$ 459.75
DD 167 ENG FEES TO 7/13/18	Clapsaddle-Garber Assoc	\$ 589.00
DD H-F 5-75 WO 187 RECLASS SVCS TO 7/6/18	Clapsaddle-Garber Assoc	\$ 3,020.00
DD H-F1 WO 140 ENG SVCS TO 7/20/18	Clapsaddle-Garber Assoc	\$ 257.70

5. DD 25 - Discuss, With Possible Action, Updates On Project

No updates at this time. The attorney is still reviewing the situation.

6. DD 52 - Discuss, With Possible Action, Project Updates

Gallentine explained that the tile was plugged with Austree roots. At four of the holes, they found 12" non-perf tile at least 1/2 plugged with roots. They were able to remove the roots. At the fifth hole, the tile was completely plugged with roots and were coming in through the wall of the non-perf tile. Roots could not be removed without damaging the tile, so approximately 65 feet of tile was removed. Currently the tile is flowing but with 65 feet open. CGA recommends removing the Austrees and replacing the 65 feet of tile. Because these are outside the 50 foot right of way, they suggest seeking legal opinion. Granzow moved, McClellan seconded for Schlemme to email Attorney, Mike Richards, to obtain legal opinion on options for tree removal. Richards should contact Gallentine for specifics if needed. All ayes. Motion carried.

7. DD 95 - Discuss, With Possible Action, Repair Summary For Work Order #162

Gallentine presented the repair summary which recommends that the remainder of the Lateral 3 tile be monitored for signs of tile failure or restricted drainage. The main tile should be repaired at the blowout to prevent soil loss and prevent drainage restrictions if the collapsed area expands. The Trustees agreed that they will leave the repairs and let the landowner farm around them, per the landowner request, until another issue is brought to the Trustees attention.

8. DD 148 - Discuss, With Possible Action, Repair Summary For Work Order #211

Gallentine updated the Trustees that the intake was originally installed by the district and is their responsibility to replace. To replace with the current concrete style, it would cost under \$6,000, but a Hickenbottom style would be less than \$3,000. Granzow moved, McClellan seconded for Gallentine to ask the landowner which intake they prefer of the two options and install it. All ayes. Motion carried.

9. DD 77 - Discuss, With Possible Action, Updates Regarding Current Project

It was discussed that the landowner of the repair area has requested a full replacement of the tile to gain extra depth. The contractor on site, Hands On, has agreed to install up to the 1,000 feet of tile with crushing the existing in place, salvaging 100 feet of the previously repaired tile and offsetting the new tile in a new trench for under \$50,000. Granzow moved, McClellan seconded for Gallentine to draft a change order for the additional length of repair under \$50,000. All ayes. Motion carried.

10. Other Business

None.

11. Adjourn Meeting

Granzow moved, McClellan seconded to adjourn the meeting. All ayes. Motion carried.

DRAINAGE DISTRICT 22 LANDOWNER MEETING

8/1/2018 - Minutes

1. Open Meeting

Hardin County Board of Supervisors Chairman, BJ Hoffman, opened the meeting. Also present were Supervisors, Lance Granzow and Renee McClellan; Landowners, Denny Harris, Betty Harris, Paul Peterson, Donald Peterson, Randy Madden, Lee Anderson, Di Stoffregen and John Liittschwager; Heather Thomas with Clapsaddle-Garber Associates (CGA); Drainage Clerk, Tina Schlemme.

2. Approve Agenda

McClellan moved, Granzow seconded to approve the agenda as presented. All ayes. Motion carried.

3. Discuss Project Materials As Bid

The meeting was turned over to Thomas who explained that there were three bidders from the previous weeks letting. No matter what options are chosen, Gehrke is the low bidder. After discussion, landowners agreed that the base bid of polypropylene was off the table as concrete was the preferred method and it was the cheaper option. After questioned, Thomas stated the perforated concrete meant that the joints would be wrapped so they are soil tight but not water tight. Thomas assured landowners that there would be an observer on site at all times and there would be periodic compaction testing and surveyors on site for grading. Thomas added that the specs state the contractor can start in either the fall or spring but they can only disturb one season of crops. Gehrkes had stated to Thomas that they would like to start this fall though. Paul Peterson questioned how the private connections would be installed, in which Thomas assured they would be industry standards.

Much discussion took place regarding the need for rock bedding. Thomas stated that a waiver would need signed if they did not install rock bedding. She further explained that due to the soil types, the industry standards are to install it with rock bedding. Madden stated he had spoken with a top pipe supplier and they told him they wouldn't require rock bedding. Madden continued to state that he did not like the engineer's approach on this requirement and questioned if this would be their stance on future county projects. He cautioned the Trustees using CGA as it could be costly for landowners. Madden and Paul Peterson both stated they would like the Trustees to shop around for other engineering firms on their requirements and to keep everyone honest. Madden also asked if no rock bedding could be used on the lower, more shallow end of the project. The Trustees agreed that Matt Garber with CGA should attend the next meeting to discuss these requirements and see if a change order reducing the project would be possible.

When asked, the majority of landowners chose the alt concrete bid with rock bedding, no televising to occur, the concrete with rock bedding cross connection and the 2 year maintenance bond. The Trustees agreed that Schlemme should research the industry standards for bedding material on concrete pipe installations and to agenda the discussion with Matt Garber for the next meeting. Schlemme displayed estimated assessments and costs with the chosen options.

4. Award Bid

McClellan moved, Granzow seconded to award the bid to Gehrke Inc for the RCP alt bid with rock bedding and add alts #4 (concrete with rock bedding cross connection) and #6 (two year maintenance bond) and to discuss the possible change order reduction at the next meeting. Roll Call-McClellan, aye. Granzow, aye. Hoffman, aye. Motion carried.

5. Other Business

None.

6. Adjourn Meeting

Granzow moved, McClellan seconded to adjourn the meeting. All ayes. Motion carried.



Drainage Work Order Request For Repair Hardin County

Date: 7/3/2018

Work Order #: WO00000215

Drainage District: Drainage Districts \DD 52 (51078)

Sec-Twp-Rge: 33-87-21 Qtr Sec: NE

Location/GIS: 87-21-33-276-004

Requested By: Tracy Below

Contact Phone: (641) 485-3396

Contact Email: _____

Landowner (if different): Piel Manufacturing Co

Description: DD 52 Lat 3 - Tracy Below spoke with County Engineer, Taylor Roll, that water is boiling out of the intake west of apartments. The area is under water and he is losing his hay crop. Please call him with updates and keep him in the loop.

Repair labor, materials and equipment: _____

Repaired By: _____ Date: _____

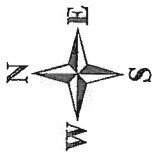
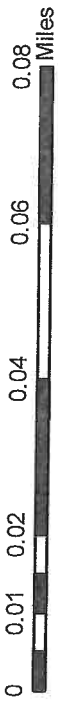
Please reference work order # and send statement for services to:
Hardin County Auditor's Office
Attn: Drainage Clerk
1215 Edgington Ave, Suite 1
Eldora, IA 50627
Phone (641) 939-8111
Fax (641) 939-8245

For Office Use Only

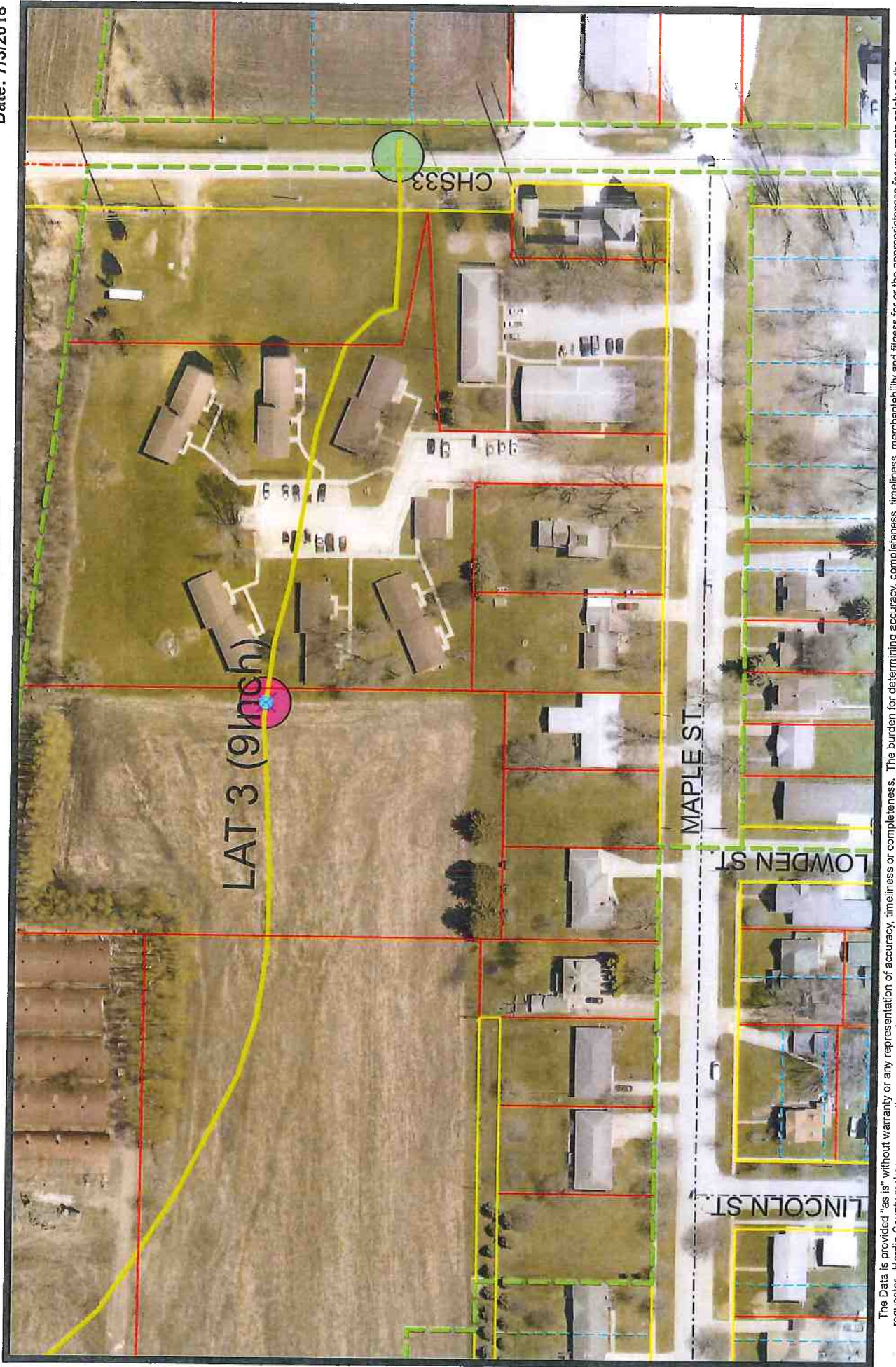
Approved: _____ Date: _____



Hardin County Auditor's Office



Date: 7/3/2018



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Drainage District:

52 Lateral 3

Repair Summary:

- Tenant reported a plugged Lateral 3 tile located in the NE¼ of Section 33, Township 87 North, Range 21 West with water coming out of intake and flowing overland.
- Visually inspected area and found water coming out of intake. Water was running on the surface along the approximate path of the Lateral 3 tile to the next intake downstream and then flowing into said downstream intake.
- Excavated five holes using as-built GPS shots from 2011 tile replacement.
- At first four holes, found 12" single wall non-perforated HDPE Lateral 3 tile at least ½ plugged with tree roots from Austrees at building site to the north. Removed tree roots from said locations and left the tile in place.
- At the fifth hole, said tile was totally plugged with Austree roots that were coming through the wall of the tile. Roots could not be removed with damaging the tile. Therefore, removed 65'± of HDPE tile at the fifth hole's location.
- After removal, left excavation open so that tile could flow.

Contractor Time and Materials (spent while CGA was on-site):

See attached Tabulated Contractor Time and Materials Sheet.

Additional Actions Recommended:

The above is a temporary fix at best. Therefore, I would recommend the following permanent repairs:

- The tile was already relocated farther away from the Austrees 7 years ago and even though non-perforated tile was used, the Austrees still penetrated the wall of the tile. Therefore, I see no alternative besides removing all the Austrees at the building site to the north and treat any stumps to prevent regrowth.
- After this is done, the 65'± of Lateral 3 tile that was removed can be replaced.

It is my understanding of Iowa Code that the District Trustees have the right to remove the Austrees, but I would recommend that they seek a legal opinion of how to correctly do it. It is also my opinion that the total construction cost to do this would be \$15,000 or less. The cost is low enough that neither a hearing nor an engineer's report would be required for this work.



Tabulated Contractor Time and Materials

Date	Totals	7/20/2018
Workman (hrs)	9	9
Backhoe (hrs)	5	4.5



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

7/5/18

DAYS OF WEEK:

S | M | T | W | T | F

SHEET NO.

1 OF 1

PROJECT NUMBER: 5212.1 ^{OLD} (5212)

COUNTY, ROUTE, ROAD: DD-52

LOCATION: HUGGARD

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SU NAME, ITEM NO. AND LOCATION

Partly Sunny, 80°, Breezy, Lots of Rain Last Night

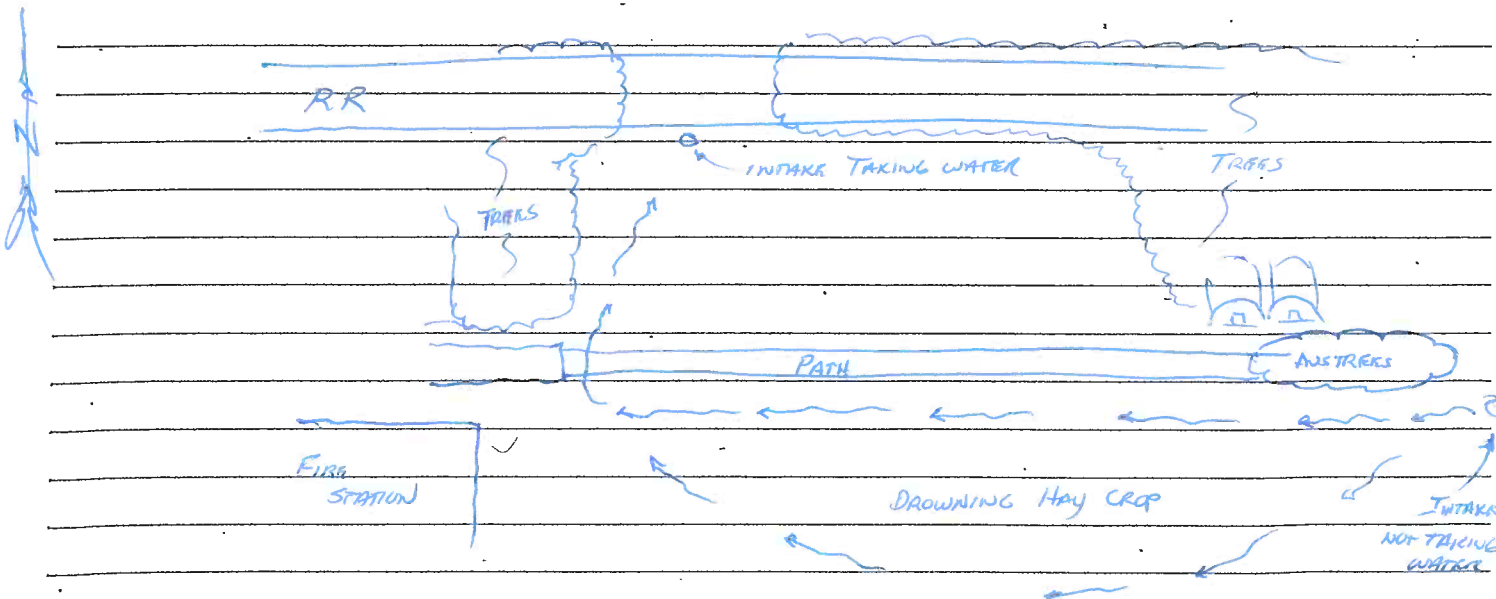
Arrived @ Hayfield S. of Old RR 3/4 E-W @ 2:30

Found 6" Orange HicK intake @ W. Edge of Apartment Complex. Spewing out lots of water 6" above ground level. Water flowed in multiple routes to West, congregating @ NE Cor of Fire Station Prop. Then to North to flow in New HicK intake @ S. Edge RR 3/4 @ clearing in trees.

Tile is probably plugged by Aust trees on N. Edge Hayfield. If exact route is not known, locate from open tile upstream, expose tile near W. Edge Austrees, investigate, fix tile if possible.

Much drying weather is needed to salvage alfalfa crop.

3:00 Left Job.



I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Handwritten Signature]

Date Prepared:

7/5/18

Reviewed by:

Engineer

Date Reviewed

INTAKE BY APARTMENTS



LOOKING WEST @ INTAKE BY APARTMENTS



LOOKING WEST @ TILLY ROUTE, ADJACENT TO RIGHT



WATER RUNNING THRU HAY FIELD



WATER RUNNING THRU AUSTRALS



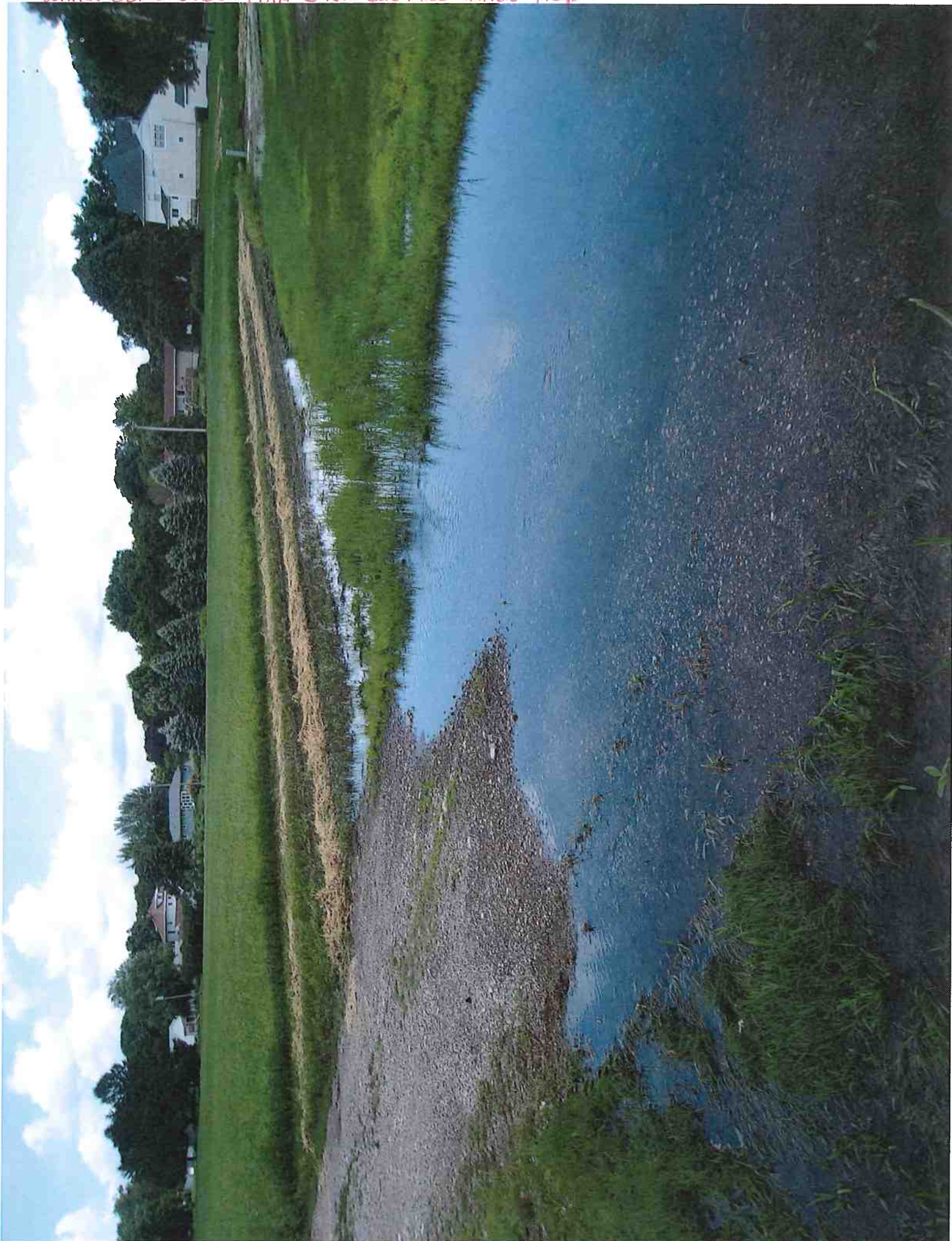
Hay Turning Yellow



WATER RUNNING WEST TO FIRE STATION



WATER GOING OVER PATH @ NE CON FIRE STATION PREP.



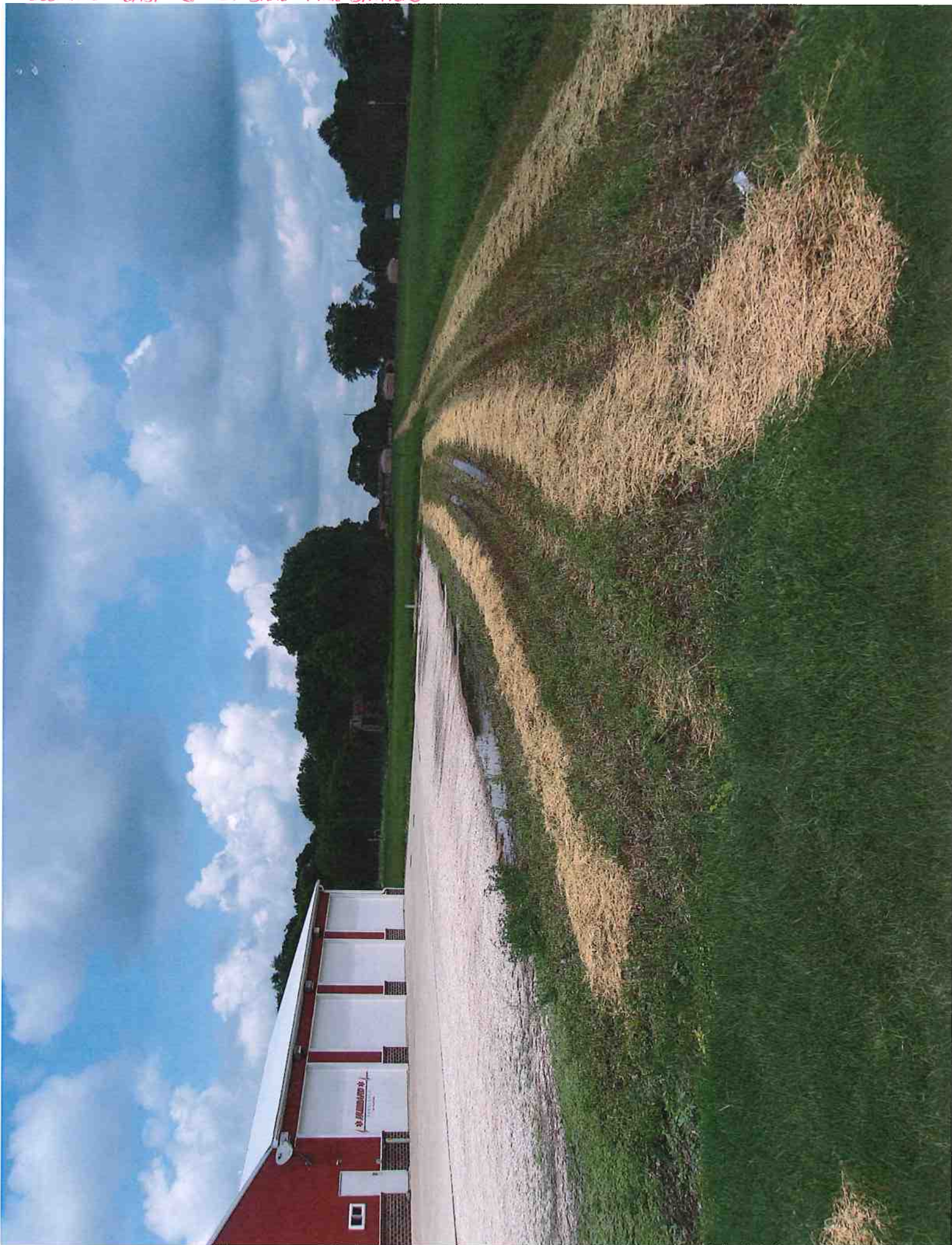
INTAKE @ S. R/W RR. THAT'S TAKING ALL THE SURFACE WATER



ONE OF ZEB'S PINS @ NW COR. OF HAY FIELD CLOSE TO INTAKE TAKING WATER



LOOKING EAST @ S. SIDE FIRE STATION



SURFACE WATER FROM HOUSE TO SOUTH FLATTENED HAY. LOOKING NORTH



CONSTRUCTION ENGINEERING
OBSERVATION REPORT

DATE:

7/20/18

PROJECT NUMBER:

5212.1

DAYS OF WEEK:

S | M | T | W | T | **F** | S

COUNTY, ROUTE, ROAD:

0052

SHEET NO.

1 OF 1

LOCATION:

HUGARD

DESCRIPTION OF WORK AND MATERIAL USED FOR EACH OPERATION, INCLUDING CONTRACTOR/SUB NAME, ITEM NO. AND LOCATION

Cloudy, Drizzle, 70°, Breezy

ARRIVED @ JOB SITE @ 7:45, SET X ON @ CPT #1, GPS 8033 ✓ OK

McDOWELL CREW (2 MEN + RUBBER TIRE BACKHOE) ON SITE @ 7:30 A.M.,

STAKED OUT NEW TILE SHOTS AND DIG UP @ #43, OPENED A 2"x2" HOLE IN 12" PE TILE.
CLEAN, NO ROOTS, WATER RUNNING FAST 2"

OPENED TILE @ #44, TILE 1/2 FULL TREE ROOTS, PULLED OUT ROOTS WITH CHAIN + BACKHOE.

OPENED TILE AND CLEANED OUT ROOTS @ #71, 72, 73

@ #74, COULD NOT CLEAN-OUT ROOTS FROM TILE, ROOTS HAD GROWN THRU SIDES
WALL OF PE TILE AND ARE SECURELY ANCHORED, RUINING TILE

REMOVED TILE FROM 74-76

ALSO FOUND 8" CLAY TILE @ #75 THAT WASN'T HOOKED UP TO MAIN
AND HAD NO OUTLET, 1/2 FULL OF DIRT BUT RUNNING 1/2 FULL.

PULLED OUT 25' OF ROOTS FROM UPSTREAM FROM 76

TILE HAD SURGE OF WATER BUT STEADY FLOW AFTER 1/2 HR. OF 2"
TILE SHOT @ 1.4% GRADE GPS

WILL HAVE TO REPLACE 64' OF 12" PE AND REPAIR 5 HOLES.

12:00 NOON DONE. 4 1/2 HRS TOTAL

I Certify that the work described in this report was incorporated into this contract unless otherwise noted.

Observer's Signature:

[Handwritten Signature]

Date Prepared:

7/20/18

Reviewed by:

Engineer

Date Reviewed

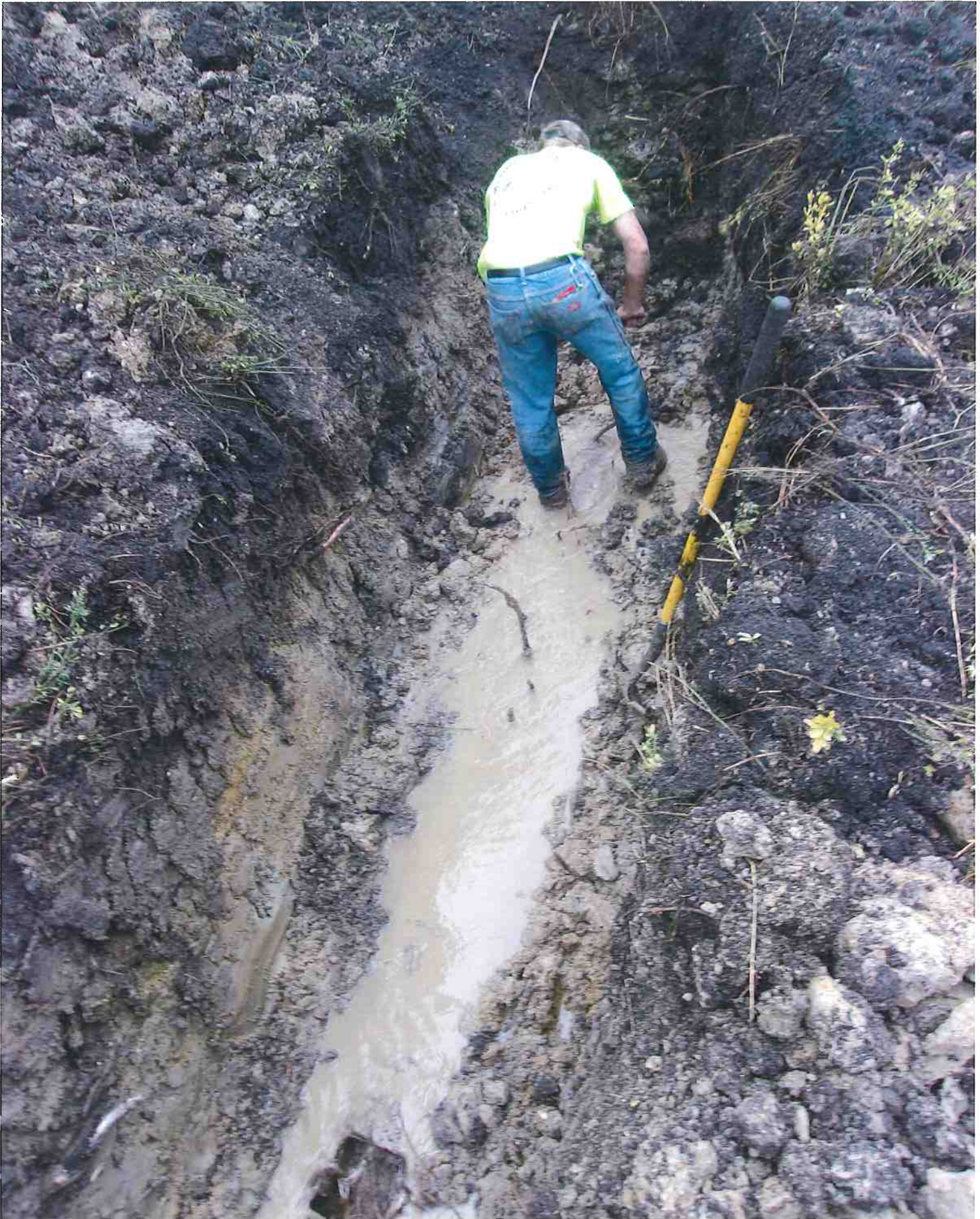
Hooking up LOG CHAIN TO ROOTS IN TREE



ROOTS GROWING THRU TOP OF TILLY (JUST UNDER WATER)



GETTING CLOSE TO END OF ROOTS @ #76



TILE TOTALLY RUINED BY ROOTS, HAD TO REMOVE



ROOTS GROWING THRU NON PERF. 12" P.E. TUBE



8" clay Tile Not Hooked up To 12" MAIN GPS* 75



TIRE RUGGED WITH ROOTS



REMOVING 63' OF 12" PE TILE WITH ROOTS THRU TILE WALL



TREE STILL PLUGGED @ EAST END OF ADUSTREES GPS# 74



TREE ROOTS IN PLUGGED 12" PLASTIC TUBE



SECTION OF 12" PLASTIC TILE REMOVED EXPOSING TREE ROOTS



Roots Pulled From Trench



Roots Pulled From TOTALLY PLUGGED 12" TUBE



LONG AUSTRALIAN ROOTS PULLED FROM TREE



ROOTS PULLED OUT OF 12" SINGLE WALL P.F. TILE



5212 7-20-18RB

1, 3572209.790, 4978035.010, 1110.100, HCGPSMON8033
2, 3575327.465, 4977893.331, 1104.293, cp2 12 ir
3, 3575127.077, 4977987.873, 1107.169, cp3 mag in acc
4, 3575322.437, 4976733.573, 1089.744, top 12" hdpetile
5, 3575325.468, 4976733.945, 1089.439, top 10" vcp
6, 3575330.763, 4976733.674, 1093.539, gs flagabovetile
7, 3575386.867, 4976733.789, 1093.068, gs flagabovetile
8, 3575428.179, 4976733.556, 1092.641, gs flagabovetile
9, 3575485.374, 4976732.991, 1092.369, gs flagabovetile
10, 3575533.094, 4976732.653, 1092.257, gs flagabovetile
11, 3575577.515, 4976732.533, 1091.710, gs flagabovetile
12, 3575624.756, 4976731.586, 1091.276, gs flagabovetile
13, 3575678.798, 4976731.458, 1090.912, gs flagabovetile
14, 3575144.053, 4976764.193, 1094.073, gs flagabovetile
15, 3575144.044, 4976764.210, 1094.105, gs flagabovetile
16, 3575129.113, 4976780.389, 1094.103, gs flagabovetile
17, 3575107.364, 4976806.581, 1094.221, gs flagabovetile
18, 3575078.350, 4976850.465, 1094.729, gs flagabovetile
19, 3575050.224, 4976895.328, 1095.218, gs flagabovetile
20, 3575020.344, 4976941.876, 1095.533, gs flagabovetile
21, 3574996.099, 4976979.074, 1096.290, gs flagabovetile
22, 3574974.140, 4977015.343, 1096.807, gs flagabovetile
23, 3574962.885, 4977376.517, 1100.002, gs flagabovetile
24, 3574963.306, 4977396.178, 1100.084, gs flagabovetile
25, 3574955.182, 4977483.383, 1100.108, gs flagabovetile
26, 3574945.966, 4977442.559, 1100.445, gs approxnewtile
27, 3574934.562, 4977379.280, 1099.804, gs approxnewtile
28, 3574919.298, 4977292.282, 1099.082, gs approxnewtile
29, 3574911.661, 4977246.047, 1098.567, gs approxnewtile
30, 3574910.753, 4977199.578, 1098.329, gs approxnewtile
31, 3574912.127, 4977148.785, 1097.653, gs approxnewtile
32, 3574914.476, 4977098.157, 1097.301, gs approxnewtile
33, 3574917.620, 4977046.659, 1096.799, gs approxnewtile
34, 3574927.214, 4976995.076, 1096.094, gs approxnewtile
35, 3574945.005, 4976947.431, 1095.831, gs approxnewtile
36, 3574972.689, 4976904.442, 1095.604, gs approxnewtile
37, 3575005.123, 4976864.837, 1095.270, gs approxnewtile
38, 3575022.894, 4976844.234, 1094.716, gs approxnewtile
39, 3575054.402, 4976805.313, 1094.468, gs approxnewtile
40, 3575090.033, 4976768.033, 1094.327, gs approxnewtile
41, 3575128.986, 4976738.075, 1093.995, gs approxnewtile
42, 3575155.820, 4976726.149, 1093.728, gs approxnewtile
43, 3574950.211, 4976939.612, 1095.573, GS GOOD TILE
44, 3574914.251, 4977097.057, 1096.826, GS TILERROOTS CLEANEDOUT
45, 3575197.958, 4976717.842, 1090.177, fl 8" hickenbotm
46, 3574933.136, 4977185.386, 1098.060, flag above4"tile
47, 3574955.415, 4977186.883, , flag above4"tile
48, 3574954.770, 4977482.361, 1097.495, top 12" hdpe
49, 3574944.457, 4977489.681, 1096.543, fl 8" hickenbotm
50, 3574948.255, 4977581.648, 1102.951, gs flagabovetile
51, 3574947.164, 4977586.049, 1103.169, gs flagabovetile
52, 3574933.371, 4977624.136, 1101.685, gs flagabovetile
53, 3574926.666, 4977608.940, 1103.050, bld se cor
54, 3574950.250, 4977598.511, 1102.976, bld ne cor
55, 3574931.198, 4977554.494, 1103.083, bld nw cor
56, 3575025.604, 4977026.519, 1098.331, bld sw cor
57, 3575025.107, 4977067.936, 1098.698, bld se cor
58, 3575025.221, 4977072.435, 1098.891, bld sw cor
59, 3575024.819, 4977113.888, 1098.893, bld se cor
60, 3575024.907, 4977118.537, 1098.934, bld sw cor
61, 3575024.692, 4977160.080, 1098.525, bld se cor
62, 3575024.727, 4977164.495, 1098.745, bld sw cor
63, 3575024.110, 4977206.124, 1099.006, bld se cor

5212 7-20-18RB

64,3575024.003,4977210.681,1099.204,bld sw cor
65,3575023.639,4977252.168,1099.941,bld se cor
66,3575124.230,4977253.087,1099.757,bld ne cor
67,3575126.131,4977026.910,1098.619,bld nw cor
68,3574935.757,4976655.306,1096.613,bld se cor
69,3574996.312,4976654.667,1096.085,bld ne cor
70,3576188.954,4978006.453,1103.803,scfne surveymark
71,3574908.326,4977183.735,1098.058,GS TILERROOTS CLEANEDOUT
72,3574908.663,4977215.102,1098.195,GS TILERROOTS CLEANEDOUT
73,3574910.492,4977229.558,1098.305,GS TILERROOTS CLEANEDOUT
74,3574911.714,4977245.492,1094.846,TOP 12"PE BAD
75,3574910.884,4977277.066,1098.686,GS 8"CLAYTILE
76,3574920.241,4977308.390,1095.736,TOP 12"PE ENDROOTS

Change Order

No. 1

Date of Issuance: July 26, 2018

Effective Date: July 25, 2018

Project: Drainage District Repairs	Owner: Drainage District Trustees	Owner's Contract No.:
Contract:		Date of Contract: May 2, 2018
Contractor: Hands On Excavating		Engineer's Project No.: 6771.2

The Contract Documents are modified as follows upon execution of this Change Order:

Description: Just before construction started, the District Trustees decided to perform entire replacement on the Main tile instead of spot replacement.

Attachments (list documents supporting change):

Revised list of items, quantities, and prices from contractor for DD77 Division as a result of Change Order #1.

CHANGE IN CONTRACT PRICE:

CHANGE IN CONTRACT TIMES:

Original Contract Price:

Original Contract Times:

Calendar days

\$149,516.85

Substantial completion (date): 11-30-2018

[Increase] [Decrease] from previously approved Change Orders No. 0 to No. 0:

[Increase] [Decrease] from previously approved Change Orders No. 0 to No. 0:

\$ 0.00

Substantial completion (days): 0

Contract Price prior to this Change Order:

Contract Times prior to this Change Order:

\$149,516.85

Substantial completion (date): 11-30-2018

Increase of this Change Order:

Increase of this Change Order:

\$ 30,911.50

Substantial completion (days): 0

Contract Price incorporating this Change Order:

Contract Times with all approved Change Orders:

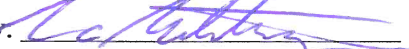
\$180,428.35

Substantial completion (date): 11-30-2018


RECOMMENDED:

ACCEPTED:

ACCEPTED:

By: 
Engineer (Authorized Signature)

By: _____
Owner (Authorized Signature)

By: 
Contractor (Authorized Signature)

Date: 7-26-18

Date: _____

Date: 7/26/2018

Approved by Funding Agency (if applicable):

Date: _____

DD 77 DIVISION – REVISED PROPOSAL TO FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THE WORK DESCRIBED BELOW FOR THE REPAIR OF DRAINAGE DISTRICT 77, HARDIN COUNTY, IOWA. INCLUDING PROVIDING A TWO-YEAR MAINTENANCE WARRANTY, PERFORMANCE, AND PAYMENT BONDS. CONTRACTOR TO REVIEW BID ITEM DESCRIPTIONS IN THE DETAILED SPECIFICATIONS.

<u>REVISED DD 77 DIVISION</u>					
Item No.	Description	Estimated Quantity	Unit	Unit Price	Extended Price
201rev	18" Ø RCP Tile	970	LF	\$ <u>48.79</u>	\$ <u>47,326.30</u>
202rev	Type PC-2 Concrete Collar	2	EA	\$ <u>350</u>	\$ <u>700.00</u>
203rev	Private Tile Connection	4	EA	\$ <u>250</u>	\$ <u>1,000.00</u>
204rev	Tile Removal (Crush In-place)	860	LF	\$ <u>1</u>	\$ <u>860.00</u>
205rev	Tile Removal (Offsite Disposal)	110	LF	\$ <u>1</u>	\$ <u>110.00</u>

DD 77 DIVISION TOTAL (Items 201rev – 205rev Inclusive) \$ 49,996.30

